

**AMENDMENTS TO THE CLAIMS**

Applicant has reproduced all of the claims of the application. Please amend the claims as follows, by deleting the matter struck through and adding the underlined matter:

1. (Currently amended) A blood vessel wall defining device for repairing an aneurysm comprising in combination,

a percutaneously-insertable structural frame extending between a first end and a second end and having an unexpanded diameter which is smaller than the diameter of said blood vessel for said structural frame to be percutaneously placed into said blood vessel, said structural frame being expandable to form a generally cylindrical structural skeleton having a slightly larger diameter than said blood vessel to facilitate the securing of said structural skeleton in position in said blood vessel;

said structural frame including a plurality of longitudinal support rods;

a tubular sheath;

said support rods being attached to ~~a~~ the tubular sheath for at least a portion thereof;

a plurality of expandable ring stents longitudinally displaced from each other internally of said tubular sheath for displacement from an intersecting artery or from an aneurysm to avoid obstruction of blood flow or to avoid the application of excessive stress against the wall of the vessel;

said ring stents having a smaller deployment diameter prior to insertion into a blood vessel and an expanded diameter in ~~the~~ an uncoiled position;

said ring stents having ratchet means for locking in an expanded position internally against ~~the~~ an inner surface of said sheath.

1 2. (Currently amended) ~~The device of claim 1~~ A blood vessel wall defining device for  
2 repairing an aneurysm comprising in combination,

3 a percutaneously-insertable structural frame extending between a first end and a second  
4 end and having an unexpanded diameter which is smaller than the diameter of said blood vessel  
5 for said structural frame to be percutaneously placed into said blood vessel, said structural frame  
6 being expandable to form a generally cylindrical structural skeleton having a slightly larger  
7 diameter than said blood vessel to facilitate the securing of said structural skeleton in position in  
8 said blood vessel;

9 said structural frame including a plurality of longitudinal support rods;

10 a tubular sheath;

11 said support rods being attached to the tubular sheath for at least a portion thereof;

12 a plurality of expandable ring stents longitudinally displaced from each other internally of  
13 said tubular sheath;

14 said ring stents having a smaller deployment diameter prior to insertion into a blood  
15 vessel and an expanded diameter in an uncoiled position;

16 said ring stents having ratchet means for locking in an expanded position internally  
17 against an inner surface of said sheath,

18 wherein said tubular sheath extends less than the full length of said longitudinal support  
19 rods, leaving a portion of said longitudinal support rods uncovered for the passage of blood  
20 between the uncovered portion of said longitudinal support rods.

1 3. (Currently amended) ~~The device of claim 1~~ A blood vessel wall defining device for  
2 repairing an aneurysm comprising in combination,

3 a percutaneously-insertable structural frame extending between a first end and a second  
4 end and having an unexpanded diameter which is smaller than the diameter of said blood vessel  
5 for said structural frame to be percutaneously placed into said blood vessel, said structural frame  
6 being expandable to form a generally cylindrical structural skeleton having a slightly larger  
7 diameter than said blood vessel to facilitate the securing of said structural skeleton in position in  
8 said blood vessel;

9 said structural frame including a plurality of longitudinal support rods;

10 a tubular sheath;

11 said support rods being attached to the tubular sheath for at least a portion thereof;

12 a plurality of expandable ring stents longitudinally displaced from each other internally of  
13 said tubular sheath;

14 said ring stents having a smaller deployment diameter prior to insertion into a blood  
15 vessel and an expanded diameter in an uncoiled position;

16 said ring stents having ratchet means for locking in an expanded position internally  
17 against an inner surface of said sheath,

18 wherein said tubular sheath forms a passage therethrough between said first and second  
19 ends that provides fluid access between the rods so that branches off the blood vessel can be  
20 supplied with blood.

1 4. (Previously added) The device of claim 1, wherein said ring stents are expandable to  
2 selected progressively uncoiled positions so that the structural frame can be expanded to different  
3 breadths along its length.

1 5. (Previously added) The device of claim 1, wherein said longitudinal support rods are  
2 flexible and are able to conform to the shape of the vessel between said ring stents.

1 6. (Currently amended) The device of claim 1, wherein said ~~sheath~~structural frame  
2 surrounds said ~~structural frame~~ sheath, and said ring stents ~~engage~~ are biased against said  
3 structural frame.

1 7. (Previously added) The device of claim 1, wherein said ring stents are each arranged in a  
2 coil and are expandable for urging the structural frame toward engagement with the interior  
3 surface of an irregularly shaped vessel.

1 8. (Currently amended) A blood vessel wall defining device for repairing an aneurysm  
2 comprising in combination:  
3 a percutaneously-insertable structural frame including a plurality of elongated  
4 flexible support members arranged approximately parallel to one another and formed in a tubular  
5 array for insertion into a vessel of the human body,

6 a tubular open ended sheath ~~extending about~~ affixed to said elongated flexible support  
7 members of said frame for collapsibly supporting said elongated flexible support members in a  
8 tubular configuration between an unexpanded diameter and expanded diameters,

9 a plurality of ring stents positioned at spaced intervals along the lengths of and  
10 within said tubular array of elongated flexible support members, and arranged to urge said  
11 elongated flexible support members from their unexpanded diameter when said device is to pass  
12 through a vessel to their expanded diameter when said device is to be expanded into engagement  
13 with a vessel,

14 said elongated flexible support members being devoid of said sheath at a position  
15 along the length of said elongated flexible support members whereby blood may pass between  
16 the elongated flexible support members, and

17 said ring stents configured to expand in response to the inflation of a balloon  
18 catheter to various diameters for causing said device to engage an irregularly shaped vessel .

1 9. (Currently amended) A blood vessel wall defining device for repairing an aneurysm  
2 comprising in combination:

3 a plurality of elongated flexible support members arranged approximately parallel  
4 to one another and formed in a tubular array for insertion into a blood vessel of the human body,

5 a plurality of ring stents positioned at spaced intervals along the lengths of and  
6 within said tubular array of elongated flexible support members, and arranged to urge said  
7 elongated flexible support members from their unexpanded diameter when said device is to pass

8 through a vessel to their expanded diameter when said device is to be expanded into engagement  
9 with a vessel,

10 said ring stents ~~configured to expand~~ and said elongated flexible support members are  
11 configured so that the elongated flexible support members are expanded by the balloon-expanded  
12 ring stents in response to the inflation of a balloon catheter to various diameters for causing said  
13 device to engage an irregularly shaped vessel, and  
14 said elongated flexible support members configured to support the blood vessel at  
15 positions between said ring stents.